

Receiving Report

Date: 17-4-3

Batch No: 137220

Supplier: Simco Coatings

Dart P/O: 35737

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☒ No ☐
 Receipt: Cash ☐ Cr ☒
 New Supplier Yes ☐ No ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☒ No ☐
 Shipment Complete: Yes ☒ No ☐ N/A ☒
 QC18 Inspection ☐ N/A ☒
 Work Order ☐ N/A ☒

Discrepancies

| Part Number | Description | Quantity Ordered | Quantity Rec'd | Quantity Short | Quantity Inspected | Quantity Rejected | Comment / NCR Number |
|-------------|-------------|------------------|----------------|----------------|--------------------|-------------------|----------------------|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Initials of Receiver SP QC12

Production/Admin: _____
 Date _____
 Received/Costing _____
 Initial _____

Location _____



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35737

Purchase Order Date 3/27/2017 8:42:39 AM
PO Print Date 3/27/2017

Page Number 1 of 1

Order From :
ROYAL BANK VISA
XXX
XX, X

VU-ROY001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED
MAR 27 2017

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

UPS Ground

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

COD

USD

Destination-Collect

| Line Nbr | Reference Vendor Part Number Line Comments Delivery Comments | Description/ Mfg ID | Req Date/ Taxable Promise Date | CD | Req Qty/ Unit of Measure | PO Unit Price | Extended Price |
|----------|--|---|--------------------------------------|----|--------------------------------|---------------|-------------------|
| 1 | 71400-11 | MILGUARD-23377 2PART EPOXY PRIMER YELLOW | 3/31/2017 | | 3.00 | \$135.00 | \$405.00 |
| | | PART EPOXY PRIMER YELLOW TYPE I, CLASS-N CONFORMANCE: MIL-P-23377J | Yes 3/31/2017 | | Each | | |
| | | | | | | Line Total: | \$405.00 |
| 2 | 71400-11 | HAZMAT PACKAGING AND HANDLE | 3/31/2017 | | 1.00 | \$100.00 | \$100.00 |
| | | | Yes 3/31/2017 | | Each | | |
| | | | | | | Line Total: | \$100.00 |
| | | | | | | PO Total: | \$505.00 |

Deliver To: ANDY

5017-43

PO Instructions: SIMCO COATING INC.
VISA ACCT: 4514 0310 0959 2060
EXP: 11/17 CID: 134
NAME ON CARD: LINDA LACELLE

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr:

1

Change Date: 3/27/2017

Invoice

Page 1

FROM

Tax ID/EIN/VAT No.: 72-1027081

Contact Name: Adeep Juneja

Simco Coatings Inc.

211 Gunther Lane

BELLE CHASSE, LA 70037

United States

Phone: 5043939455

SHIP TO

Tax ID/VAT No.:

Contact Name: Chantal Lavoie

Dart Aerospace Ltd.

1270 Aberdeen

HAWKESBURY, ON K6A1K7

Canada

Phone: 613-632-9577

Waybill Number: 1ZE08E886855994271

Shipment ID: E08E88KCN9N



Date: 27/MAR/2017

Invoice No.: Invoice # 111382

Purchase No.: P.O. # PO35737

Terms of Sale (Incoterm):

Reason for Export: Sale

SOLD TO INFORMATION

Tax ID/VAT No.:

Contact Name:

Same as Ship To

Phone:

| Units | U/M | Description of Goods/Part No. | Harm. Code | C/O | Unit Value | Total Value |
|-------|-----|-------------------------------|------------|-----|------------|-------------|
| 8 | NMB | UN 1263, Paint 3, PG-III | | US | 33.75 | 270.00 USD |
| 4 | NMB | UN 1263, Paint 3, PG-III | | US | 33.75 | 135.00 USD |

817-43

Additional Comments:

Declaration Statement:

I hereby certify that the information on this invoice is true and correct and the contents and value of this shipment is as stated above.

Shipper

Adeep Juneja

Date

3/27/17

Invoice Line Total: 405.00

Discount/Rebate: 0.00

Invoice Sub-Total: 405.00

Freight: 0.00

Insurance: 0.00

Other: 0.00

Total Invoice Amount: 405.00

Total Number of Packages: 2

Currency: USD

Total Weight: 48.0 LBS

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law prohibited.

PACKING LIST

SIMCO COATINGS, INC.

211 GUNTHER LANE
BELLE CHASSE, LA 70037
TEL. : (504) 393-9455
FAX : (504) 433-1406

SOLD TO:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel. # (613) 632-9577

SHIPPED TO:

Same as Sold To

| DATE SHIPPED | YOUR ORDER NO. | FREIGHT CHARGES PPD/COLLECT | C.O.D. AMOUNT |
|--------------|----------------|--------------------------------|------------------|
| 27-Mar-17 | PO # PO35737 | COLLECT | |

| PRODUCT CODE | DESCRIPTION | UNIT/CONT. SIZE | TOTAL QUARTS | TOTAL GALLONS |
|--------------|--|---------------------|-----------------|------------------|
| MIL-P-23377 | HS Epoxy Polyamide Prime Yellow Type I, Class-N Conformance: MIL-P-23377J Component A Component B (Short Filled to 0.75 Gal.) 2 Pc. Boxes Containing the Above | 1-Gal. 1-QRT | 3 | 3 |
| TOTAL | | | 3 | 3 |

SPT-43

SIMCO COATINGS INC.

Manufacturer of High Performance

Industrial, Marine & Specialty Paints

211 Gunther Lane, Belle Chasse, LA 70037 USA

Tel: (504) 393-9455 Fax: (504) 433-1406

E-mail: sales@simcocoatings.com Web: www.simcocoatings.com

Name: Dart Aerospace Ltd.

Address: 1270 Aberdeen Street

City: Hawkesbury, ON K6A 1K7 Canada

Shipped To: Same Address

Tel. # (613) 632-9577

Invoice No.: 111382

Date: 3/27/2017

P.O. # PO35737

Ship Via UPS Standard Ground

Terms Credit Card

| QTY ORD. (KIT) | QTY SHIP (KIT) | DESCRIPTION | PRICE/KIT | TOTAL |
|-------------------|-------------------|--|-----------|----------|
| 3 | 3 | HS Epoxy Polyamide Primer Yellow Conformance: MIL-P-23377J Type-I, Class-N (Component A&B) (1Kit=1Gal.) | \$135.00 | \$405.00 |
| | | Special Packaging Charges for Shipping Dangerous Goods | | \$100.00 |
| FRT COLLECT | | | | |
| TOTAL: | | | | \$505.00 |

SIMCO COATINGS INC
211 GUNTHER LN
BELLE CHASSE, LA. 70037-
504-393-9455

SALE

REF#: 00000004

Batch #: 211

03/27/17

12:33:04

AVS: A

CVV2: M

APPR CODE: 091086

Trace: 4

VISA

Manual CNP

*****2060

AMOUNT \$505.00

APPROVED

THANK YOU

CUSTOMER COPY

Thank you!

It has been a pleasure serving you.

We appreciate your business.

50743

DEPARTMENT OF THE TREASURY
UNITED STATES CUSTOMS SERVICE
North American Free-Trade Agreement
CERTIFICATE OF ORIGIN

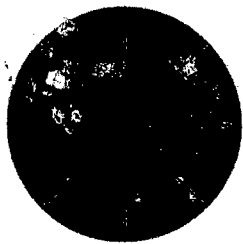
See instruction sheet for Paper-
work Reduction Act Notice.

(Instructions for completion on reverse)

19 CFR 181.11, 181.22

(Please print or type)

| | | | | | |
|--|--|---|-------------|----------------|--------------------------|
| 1. EXPORTER NAME AND ADDRESS: Simco Coatings Inc. 211 Gunther Lane Belle Chasse, LA 70037 USA TAX IDENTIFICATION NUMBER: 72-1027081 | | 2. BLANKET PERIOD (DD/MM/YY) FROM: 27/03/2017 TO: 27/04/2017 | | | |
| 3. PRODUCER NAME AND ADDRESS: TAX IDENTIFICATION NUMBER: 72-1027081 | | 4. IMPORTER NAME AND ADDRESS: Dart Aerospace Ltd. 1270 Aberdeen Hawkesbury, ON K6A1K7 Canada TAX IDENTIFICATION NUMBER: | | | |
| 5. DESCRIPTION OF GOOD(S): | 6. H.S. TARIFF CLASSIFICATION NUMBER | 7. PREFERENCE CRITERION | 8. PRODUCER | 9. NET COST | 10. COUNTRY OF ORIGIN |
| 1 Fibreboard Box containing Paint (Epoxy Coating Paint) weighing approximately 31 Lbs. and 18" X 18" X 11" | 3208.90 | A | Yes | No | U.S.A. |
| 1 Fibreboard Box containing Paint (Epoxy Coating Paint) weighing approximately 17 Lbs. and 19" X 11" X 9" | 3208.90 | A | Yes | No | U.S.A. |
| I CERTIFY THAT: - THE INFORMATION ON THIS DOCUMENT IS TRUE AND ACCURATE AND I ASSUME THE RESPONSIBILITY FOR PROVING SUCH REPRESENTATIONS. I UNDERSTAND THAT I AM LIABLE FOR ANY FALSE STATEMENTS OR MATERIAL OMISSIONS MADE ON OR IN CONNECTION WITH THIS DOCUMENT: - I AGREE TO MAINTAIN, AND PRESENT UPON REQUEST, DOCUMENTATION NECESSARY TO SUPPORT THIS CERTIFICATE, AND TO INFORM, IN WRITING, ALL PERSONS TO WHOM THE CERTIFICATE WAS GIVEN OF ANY CHANGES THAT COULD AFFECT THE ACCURACY OR VALIDITY OF THIS CERTIFICATE; - THE GOODS ORIGINATED IN THE TERRITORY OF ONE OR MORE OF THE PARTIES, AND COMPLY WITH THE ORIGIN REQUIREMENTS SPECIFIED FOR THOSE GOODS IN THE NORTH AMERICAN FREE TRADE AGREEMENT, AND UNLESS SPECIFICALLY EXEMPTED IN ARTICLE 411 OR ANNEX 401, THERE HAS BEEN NO FURTHER PRODUCTION OR ANY OTHER OPERATION OUTSIDE THE TERRITORIES OF THE PARTIES; AND - THIS CERTIFICATE CONSISTS OF . . . PAGES, INCLUDING ALL ATTACHMENTS. | | | | | |
| 11a. AUTHORIZED SIGNATURE: <i>Adeep Juneja</i> | | 11b. COMPANY: Simco Coatings Inc. | | | |
| 11c. NAME (PRINT OR TYPE) Adeep Juneja | | 11d. TITLE: Vice President | | | |
| 11e. DATE: (DD/MM/YYYY) 27/03/2017 | | 11f. TELEPHONE: (Voice 504-393-9455 (Fax) 504-433-1406 | | | |



Simco Coatings Inc.

Manufacturer of Military Spec.,
Corps of Engrs. Spec, Industrial, &
Marine Coatings

CERTIFICATE OF CONFORMANCE

March 27, 2017

Dart Aerospace Ltd.
1270 Aberdeen
Hawkesbury, ON K6A 1K7
Canada

To Whom It May Concern:

This is to certify that the following Products supplied to Dart Aerospace Ltd. under their Purchase Order # PO35737 dated March 27, 2017 conforms to specifications as mentioned below:

Product Description

Quantity

1.) Milguard-23377, (Component-A)
Epoxy Primer Coating Yellow
Conformance: MIL-P-23377J
Type-I, Class-N
Batch No. 8888-C-H17
D.O.M.: 03/2017 D.O.E.: 03/2018

3 Gallons
(Short Filled to 0.75 Gallon/Can)

2.) Milguard-23377, (Component-B)
Hardener for Epoxy Primer
Conformance: MIL-P-23377J
Type-I, Class-N
Batch No. 8889-C-H17
D.O.M.: 03/2017 D.O.E.: 03/2018

3 Quarts

We also confirm that these materials were tested and their test results meet the same specifications. Furthermore, to best of our knowledge, these products do not contain mercury and did not come in contact with mercury or its compounds during their manufacture at our facility.

Shelf Life:

Both components of this Paint (Part A & Part B) which can be stored for at least 1 year in their original containers, and at ambient laboratory conditions (normal 23 °C (75 °F), when mixed as specified shall produce a paint, which shall meet all the requirement of this specification.

A.J. Juneja (on Behalf of Paul Juneja)
Quality Assurance Manager

Simco Coatings Inc.
211 Gunther Ln., Belle Chasse, Louisiana 70037 U.S.A.
Tel: (504) 393-9455 Fax: (504) 433-1406 Toll Free: 1-866-95SIMCO
e-mail: sales@simcocoatings.com web: www.simcocoatings.com



Simco Coatings Inc.

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Marine Coatings

Product Information

MILGUARD-23377
EPOXY-POLYAMIDE PRIMER

DESCRIPTION:

Milguard-23377 is a two component, high solids, VOC compliant epoxy polyamide primer with excellent chemical, solvent and corrosion resistance suitable to be used on Aluminum, Steel and Galvanized Substrates.

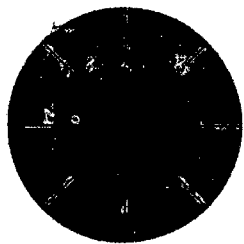
CONFORMANCE:

This product complies with military specification MIL-P-23377J, Type-I, Class-N

TECHNICAL DATA

| | |
|--|---|
| GENERIC TYPE: | Epoxy Resin and Polyamide Curing Agents |
| COLOR: | Yellow |
| FINISH: | Semi-Gloss |
| VOLATILE ORGANIC COMPOUNDS: (VOC BEFORE THINNING) | 2.82 Lbs./Gal. or 338 Grms./Ltr. |
| MIX RATIO: | 3:1 by Volume |
| SOLIDS BY VOLUME: | 60 % (Mixed) |
| THEORETICAL SPREADING RATE: | Approx. 1,200 sq. ft/gal. @ 1.0 Mil DFT |
| RECOMMENDED DRY FILM THICKNESS (DFT) : | 1.0 -1.5 Mils (25 – 38 Microns) |
| POT LIFE @ 77 °F, 50% RH: | 4 Hrs. |
| SHELF LIFE: | 12 Months |
| FLASH POINT: | 102 °F (Mixed) |
| REDUCER/CLEAN UP: | Epoxy Thinner MIL-T-81772, Type-II |
| DRY TIME @ 77 °F: | |
| TACK FREE: | 5 Hrs. |
| DRY HARD: | 8 Hrs. |
| TO RECOAT: | |
| MINIMUM: | 12 Hrs. |
| MAXIMUM: | 3 Days |

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Tel: (504) 393-9455 Fax: (504) 433-1406 Toll Free: 1-866-95SIMCO
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MILGUARD-23377
EPOXY-POLYAMIDE PRIMER

SURFACE PREPARATION:

Surface must be clean, dry, and in sound condition. Remove all oil, dust grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

IRON & STEEL SUBSTRATES:

Remove all oil and grease from surface by solvent cleaning per SSPC-SPI. Minimum surface preparation is commercial blast cleaning per SSPC-SP6. For better performance, use near White Metal Blast Cleaning Per SSPC-SP10. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils). Remove all weld spatter and all round sharp edges by grinding to a minimum 1/4" radius. Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

ALUMINUM SUBSTRATES:

Remove all oil, grease dirt, oxide and other foreign material by solvent cleaning per SSPC-SP1.

APPLICATION CONDITIONS:

Temperature: 50 ° F Minimum, 100 F Maximum (Air, Surface and Material)
At least 5 ° F above dew point
Force Drying: 45-60 Minutes @ 140 ° F for Dry Hard
Relative Humidity: 85% maximum

APPLICATION EQUIPMENT:

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compatible with the existing environmental and application conditions.

Reducer/Clean Up.....MIL-P-81772, Type-II

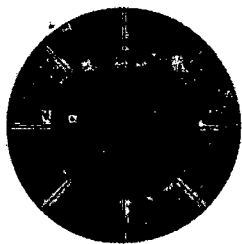
Airless Spray

Unit.....30:1 Pump
Pressure.....2400-2800 psi
Hose.....1/4" ID
Tip......009"-.015"
Filter.....60 Mesh
Reduction.....Not recommended

CONVENTIONAL SPRAY

Gun.....DeVilbiss MBC510
Fluid Tip.....FF
Air Cap.....797
Atomization Pressure.....50-60 psi

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MILGUARD-23377
EPOXY-POLYAMIDE PRIMER

Fluid Pressure.....10-15 psi
Reduction.....Not recommended

APPLICATION PROCEDURES:

Mix contents of both Part A & B thoroughly with power agitation. Make certain no pigment remains on the bottom of the can. Then combine three parts by volume of Part-A with one part by volume of Part-B. Thoroughly agitate the mixture with power agitation. After mixing, pour through a 60-mesh screen. Allow the material to sweat-in as indicated below prior to application. Re-stir before using.

PERFORMANCE TIPS:

Stripe coats all crevices, welds and sharp angles to prevent early failure in these areas.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at right angle.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, over thinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and adhesion.

Do not apply the material beyond recommended pot life

Do not mix previously catalyzed material with new.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Epoxy Thinner MIL-P-81772, Type-II

SAFETY PRECAUTIONS:

(A) Use normal precautions such as gloves, facemasks. (B) Adequate ventilation must be maintained. (C) Explosion proof lights and electrical equipment. (D) Non-sparking shoes and tools for workers in the area. (E) This product contains flammable materials. Forbid all flames, smoking and welding in the work area. (F) Avoid breathing of vapor, contact with skin and eyes.

NON-WARRANTY:

The technical data listed herein has been compiled for your convenience and guidance, and is based upon our experience and knowledge. However, since we have no control over the use of this information or of

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Marine Coatings

MILGUARD-23377
EPOXY-POLYAMIDE PRIMER

this product, no warranty, expressed or implied, is intended or given. Simco Coatings, Inc., assumes no responsibility whatsoever for coverage, performance, or any other damages, including injuries resulting from use of this information or of products recommended herein.

FOR INDUSTRIAL USE ONLY

1/16/16

Simco Coatings Inc.
211 Gunther Ln., Belle Chasse, Louisiana 70037 U.S.A.
Tel: (504) 393-9455 Fax: (504) 433-1406 Toll Free: 1-866-95SIMCO
e-mail: sales@simcocoatings.com web: www.simcocoatings.com

GHS SAFETY DATA SHEET

1. IDENTIFICATION

**MANUFACTURER'S
NAME:**

Simco Coatings
211 Gunther Lane
Belle Chasse, LA. 70037

**FOR 24 HOUR EMERGENCY ASSISTANCE
CALL CHEMTREC**

CHEMTREC DOMESTIC NORTH AMERICA: (800)-424-9300
CHEMTREC INTERNATIONAL: (703)-527-3887

Simco Coatings Phone:
Product Information:
Fax Number:

(504)-393-9455
(866)-957-4626
(504)-433-1406

PRODUCT NUMBER:
PRODUCT NAME:
PRODUCT USE:
Date of SDS Preparation:

MIL-P-23377J, Type I, Class N
Hardener for Epoxy Polyamide Primer (Component B)
Hardener for Epoxy Polyamide Protective Coating
December, 2015

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Flammable liquids
Skin irritation
Eye irritation
Skin sensitization
Mutagen
Aspiration hazard

Category 3
Category 1A
Category 1
Category 1B
Category 1B
Category 1

GHS LABEL ELEMENT:

Pictograms:



Signal Word: **DANGER**

HAZARD STATEMENTS

Flammable liquid and vapor. Causes severe skin burns and eye damage. May cause allergic skin reaction. May be fatal if swallowed and enters airways. May cause genetic defects. Toxic to aquatic environment.

PRECAUTIONARY STATEMENTS

PREVENTION

Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Keep container cool and tightly closed. Use explosion proof equipment and non-sparking tools and take action to prevent static discharges.

Do not breathe dust/fume/gas/vapor/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear respiratory protection, protective gloves, protective clothing, eye protection, face protection. Contaminated work clothing should not be allowed out of the work area.

Use only outdoors or in well ventilated area. Avoid release to the environment.

RESPONSE

IF INHALED, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, consult a physician. If breathing has stopped, cardiopulmonary resuscitation may be administered.

IF SWALLOWED, call POISON CENTER/DOCTOR, if you feel unwell. Rinse mouth. Prevent aspiration of vomit. DO NOT INDUCE VOMITING.

IF ON SKIN, take off immediately all contaminated clothing and wash it before reuse. Rinse skin or shower with plenty of water. If skin irritation or rash occurs, get medical advice/attention. Contaminated work clothing should not be allowed out of the workplace.

IF IN EYES, rinse cautiously with water for several minutes and remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

IF EXPOSED OR CONCERNED, immediately , call a POISON CENTER/DOCTOR.

In case of fire, use dry chemical, carbon dioxide or alcohol resistant foam to extinguish. Collect any spillage.

STORAGE

Store in a well ventilated, secure place. Keep cool.

DISPOSAL

Dispose of contents/container to an approved disposal facility and in accordance with federal, state and local regulations.

| |
|--|
| 3. COMPOSITION/INFORMATION ON INGREDIENTS |
|--|

| Component | CAS | % Range |
|------------------------------------|-------------|---------|
| Propriety Epoxy-Amine Curing Agent | Proprietary | 70-80 |
| Proprietary Amine | Proprietary | 1-5 |
| Proprietary Reacted Amine | Proprietary | 1-10 |
| Proprietary Amine Products | Proprietary | 1-3 |
| n-Butanol | 71-36-3 | 15-30 |
| Light aromatic naphtha | 64742-95-6 | 10-20 |
| Trimethylbenzene | 25551-13-7 | 5-10 |
| 1,2,4-trimethylbenzene | 95-63-6 | 5-10 |
| 1,3,5-trimethylbenzene | 108-67-8 | 1-5 |
| 1,2,5-trimethylbenzene | 526-73-8 | 1-5 |
| Cumene | 98-82-8 | 0-3 |

4. FIRST AID MEASURES

EFFECTS OF OVEREXPOSURE:

Causes severe skin burns and eye damage. May cause allergic skin reaction. May be fatal if swallowed and enters airways. May cause genetic defects.

PRIMARY ROUTE (S) OF ENTRY: DERMAL INHALATION EYES

EMERGENCY AND FIRST AID PROCEDURES:

IF INHALED, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, consult a physician. If breathing has stopped, cardiopulmonary resuscitation may be administered.

IF SWALLOWED, call POISON CENTER/DOCTOR, if you feel unwell. Rinse mouth. Prevent aspiration of vomit. DO NOT INDUCE VOMITING.

IF ON SKIN, take off immediately all contaminated clothing and wash it before reuse. Rinse skin or shower with plenty of water. If skin irritation or rash occurs, get medical advice/attention. Contaminated work clothing should not be allowed out of the workplace.

IF IN EYES, rinse cautiously with water for several minutes and remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

IF EXPOSED OR CONCERNED, immediately, call a POISON CENTER/DOCTOR.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Dry chemical, carbon dioxide, alcohol resistant foam

UNSUITABLE EXTINGUISHING MEDIA: High volume water jet.

HAZARDOUS DECOMPOSITION PRODUCTS: Nitric acid, ammonia, nitrogen oxides, carbon oxides, aldehydes, nitrosamines.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Isolate from heat, electrical equipment, spark & open flame, closed containers may explode when exposed to extreme heat. Do not apply to hot surfaces. Paint vapors can cause a violent explosion. Supply sufficient ventilation to keep vapors below LEL level. Use explosion proof equipment.

Special Fire-fighting Procedures:

Water may be used to cool closed containers to prevent pressure build up and possible auto ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are required.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flame, hot surfaces, and electrical static or frictional sparks). Avoid breathing vapors; ventilate area, remove with inert absorbent and non-sparking tools. Wear protective clothing.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Wear respiratory protection, protective gloves, protective clothing and eye and face protection when handling. Wash hands after handling. Do not eat, drink or smoke in work area.

CONDITIONS FOR SAFE STORAGE:

Keep away from hot surfaces and other sources of ignition. Store in cool, secure, well ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

n-Butanol

20 ppm, TWA ACGIH
50 ppm, ceiling, NIOSH REL
150 mg/cu. meter, ceiling, NIOSH REL
100 ppm, TWA, OSHA Z-1
300 mg/cu. Meter, TWA, OSHA Z-1
50 ppm, ceiling, OSHA Z-1A
150 mg/cu. Meter, ceiling, OSHA P0

Light aromatic naphtha

500 ppm TWA OSHA Z-1
2,000 mg/cubic meter TWA OSHA Z-1
400 ppm TWA OSHA P0
1,600 mg/cubic meter TWA OSHA P0
400 ppm TWA OSHA P0
1,600 mg/cubic meter TWA OSHA P0
200 ppm TWA (as total hydrocarbon vapor) ACGIH

Trimethylbenzene (25551-13-7)

25 ppm meter TWA ACGIH
25 ppm TWA OSHA P0
125 mg/cu. Meter TWA OSHA P0

1,2,4-Trimethylbenzene

25 ppm TWA NIOSH REL
125 mg/cu. Meter TWA NIOSH REL

1,3,5-Trimethylbenzene

25 ppm TWA NIOSH REL

125 mg/cu. Meter TWA NIOSH REL

1,2,5-Trimethylbenzene

25 PPM TWA NIOSH PEL

125 mg/cu. Meter TWA NIOSH REL

Cumene

50 ppm TWA ACGIH

50 ppm TWA NIOSH REL

245 mg/cu. Meter TWA NIOSH REL

50 ppm TWA OSHA Z-1

245 mg/cu. Meter TWA OSHA Z-1

50 ppm TWA OSHA P0

245 mg. cu. Meter TWA OSHA P0

Proprietary Amine

1 ppm TWA WEEL

6 mg/cu. Meter TWA WEEL

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---------------------------------|
| Appearance | Clear liquid |
| Odor | Alcohol/Aromatic solvent odor |
| Odor threshold | No data |
| pH | No data |
| Freezing point | No Data |
| Initial boiling point | No Data |
| Flash point | 107 F (Light aromatic naphtha) |
| Evaporation rate | No Data |
| Flammability | No Data |
| Burning rate | No data |
| Lower explosive limit | No Data |
| Upper explosive limit | No Data |
| Vapor pressure | No Data |
| Relative vapor density | Heavier than air |
| Relative density | 0.9 |
| Water solubility | Partially soluble |
| Partition coefficient (n-octanol/water) | No data |
| Autoignition temperature | No data |
| Thermal decomposition temperature | No data |
| VOC | 2.82 lbs/gal or 338 grams/liter |

10. STABILITY AND REACTIVITY

REACTIVITY/INCOMPATIBLE MATERIALS: Sodium hypochlorite, acids, peroxides, reactive metals, oxidizers.

STABILITY: Stable under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Nitric acid, ammonia, nitrogen oxides, carbon oxides, aldehydes, nitrosamines.

CONDITIONS TO AVOID: Sources of ignition, excessive temperatures.

11. TOXICOLOGICAL PROPERTIES

N-Butanol

Oral LD50: 790 mg/kg (rat)
Inhalation LC50: >8,000 ppm (rat, male and female)
Dermal LD50: 3,430 mg/kg (rabbit, male)
Irritating to skin: Draize test.
Eye Damage: (rabbit) OECD Test Guideline 405.
Not mutagen: (Chinese hamster) OECD Test Guideline 476; (mouse, male & female) OECD Test Guideline 474

Light Aromatic Naphtha

Oral LD50: >5,000 mg/kg (rat)
Inhalation LC50: No Data
Dermal LD50: >2,000 mg/kg (Rabbit, male and female)
Irritating to eyes: OECD Test Guideline 405 (rabbit)
Irritating to skin: 4 hours, OECD Test Guideline 404
Not Skin sensitizer: Buehler Test, OECD Test Guideline 406 (guinea pig)

12. ECOLOGICAL INFORMATION

Light Aromatic Naphtha

LC50: 10 mg/l (oncorhynchus mykiss) semi-static test, 96 hours
EL50: 4.5 mg/l (Daphnia magna, static test, 48 hours
EL50: 3.1 mg/l (Pseudokirchneriella subcapita), static test, growth rate, 72 hours.
Biodegradability: 77.05%, readily biodegradable, 28 days, OECD test Guideline 301F

N-Butanol

LC50: 1,376 mg/l (Pimephales promelas), 96 hours
EC50: 1,328 mg/l (Daphnia magna), 48 hours.
EC50: 225 mg/l (Pseudokirchneriella subcapita), 96 hours.
NOEC: 4.1 mg/liter (Daphnia magna), 21 days.
EC50: 4,390 mg/liter (Pseudomonas putida), 17 hours, static test.
Biodegradability: 98%, 19 days, OECD Test Guideline 301E, readily biodegradable.
COD: 0.00245 mg/gram.
ThOD: 0.00259 mg/gram.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Dispose in accordance with local, state and federal regulations. Incinerate in approved facility. Do not incinerate closed containers.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION:

PROPER SHIPPING NAME: PAINT

HAZARD CLASS: 3

UN OR ID NUMBER: U.N. 1263

PACKING GROUP:III

15. REGULATORY INFORMATION

The following component(s) are subject to Emergency Planning and Community Right-To-Know Act (EPCRA) Section 302 Extremely Hazardous Substances, EPCRA Section 313 Toxic Chemicals, Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and/or Section 112(r) of the Clean Air Act:

1,2,4-Trimethylbenzene: EPCRA Section 313.

Cumene: EPCRA Section 313; CERCLA RQ=5,000 lbs.

N-Butanol: EPCRA Section 313; CERCLA RQ = 5,000 lbs.

16. OTHER INFORMATION

Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists

CAL/OSHA: California Division of Occupational Safety and Health

CERCLA: Comprehensive Environmental Response, Compensation and Liability Act

COD: Chemical Oxygen Demand

EC50: Effective Concentration, Half Maximal

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

NOEC: No Observed Effect Concentration

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

ThOD: Theoretical Oxygen Demand

TWA: Time Weighted Average

WEEL: Workplace Environmental Exposure Level (American Industrial Hygiene Association)

Date of SDS Preparation: December, 2015

SAFETY DATA SHEET

1. IDENTIFICATION

**MANUFACTURER'S
NAME:**

**Simco Coatings
211 Gunther Lane
Belle Chasse, LA. 70037**

**Simco Coatings Phone:
Product Information:
Fax Number:**

**PRODUCT NUMBER:
PRODUCT NAME:
PRODUCT USE:
Date of SDS Preparation:**

**FOR 24 HOUR EMERGENCY ASSISTANCE
CALL CHEMTREC**

**CHEMTREC DOMESTIC NORTH AMERICA: (800)-424-9300
CHEMTREC INTERNATIONAL: (703)-527-3887**

**(504)-393-9455
(866)-957-4626
(504)-433-1406**

**MIL-P-23377 Comp A
MIL-P-23377J , Type I, Class N Primer Yellow (Comp.-A)
Epoxy Polyamide Primer
February, 2017**

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Flammable liquids
Skin irritation
Eye irritation
Skin Sensitization
Specific target organ toxicity (single exposure)
Specific target organ toxicity (repeated exposure)
Carcinogen
Aquatic Toxicity

Category 3
Category 2
Category 2A
Category 1
Category 3 (central nervous system)
Category 1 (lungs)
Category 1A
Category 1

GHS LABEL ELEMENT:

Pictograms:



Signal Word: DANGER

HAZARD STATEMENTS

| | |
|-------------|---|
| H225 | Highly flammable liquid and vapor. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H350 | May cause lung cancer if inhaled as respirable silica (in sanding operations). |
| H372 | Causes damage to the lungs through prolonged or repeated exposure of respirable silica (in sanding operations). |
| H400 | Very toxic to aquatic life. |

PRECAUTIONARY STATEMENTS

PREVENTION

| | |
|-------------|--|
| P201 | Obtain special instructions before use |
| P202 | Do not handle until all safety precautions have been read and understood |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground and bond container and receiving equipment. |
| P241 | Use explosion proof equipment and lighting. |
| P242 | Use non-sparing tools. |
| P243 | Take action to prevent static discharge. |
| P261 | Avoid breathing vapors, mist or dust. |
| P264 | Wash hands thoroughly after handling |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in well ventilated area. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves, protective clothes and eye protection |

RESPONSE

| | |
|-------------------------|--|
| P303 + 361 + 353 | IF ON SKIN (or hair), take off immediately all contaminated clothing and wash before reuse. Rinse skin with plenty of water. |
| P333 + 313 | If skin irritation or rash occurs: Get medical attention. |
| P362 + 364 | Take off contaminated clothing and wash it before reuse. |
| P301 + 310 | IF SWALLOWED: immediately call a POISON CENTER/DOCTOR for assistance. |
| P304 + 340 | IF INHALED, remove person to fresh air and keep comfortable for breathing. |
| P312 | Call a physician if you feel unwell. |
| P305 + 351 + 338 | IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing |
| P337 + 313 | If eye irritation persists, get medical attention |
| P308 + 313 | If exposed or concerned, get medical attention. |
| P370 + 378 | In case of fire, use alcohol resistant foam, carbon dioxide, dry chemical or water fog to extinguish. Do not use water jet. |
| H391 | Collect spillage. |

STORAGE

| | |
|-------------------------|--|
| P403 + 233 + 235 | Store in a well ventilated place and keep cool and tightly closed. |
| P405 | Store locked up. |

DISPOSAL

| | |
|-------------|---|
| P501 | Dispose of contents/container to an approved disposal facility and in accordance with federal, state and local regulations. |
|-------------|---|

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS | % Range |
|-----------------------------|-------------|---------|
| Epoxy resin | proprietary | 30-40 |
| Zinc phosphate | 7779-90-0 | 10-20 |
| Magnesium silicate | 14807-96-6 | 10-20 |
| Magnesium calcium carbonate | 16389-88-1 | 1-5 |
| Crystalline silica | 14808-60-7 | 0.1-0.5 |
| Titanium dioxide | 13463-67-7 | 10-20 |
| Yellow Iron Oxide | 51274-00-1 | 1-5 |
| Zinc oxide | 1314-13-2 | 1-5 |
| Methyl amyl ketone | 110-43-0 | 15-25 |

4. FIRST AID MEASURES**EMERGENCY AND FIRST AID PROCEDURES:**

Acute Effects of Exposure: Causes skin irritation and allergic skin reaction and rash. Causes serious eye irritation and redness. May cause respiratory irritation.

Chronic Effects of Exposure: Inhalation of respirable silica, as in sanding operations, may cause lung cancer.

IF ON SKIN (or hair), take off immediately all contaminated clothing and wash before reuse.

Rinse skin with plenty of water.

If skin irritation or rash occurs: Get medical attention.

Take off contaminated clothing and wash it before reuse.

IF SWALLOWED, immediately call a POISON CENTER/DOCTOR for assistance.

IF INHALED, remove person to fresh air and keep comfortable for breathing. Call a physician if not feeling well.

IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: alcohol resistant foam, carbon dioxide, dry chemical or water fog to extinguish.

UNACCEPTABLE EXTINGUISHING MEDIA: Do not use water jet.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Isolate from heat, electrical equipment, spark & open flame, closed containers may explode when exposed to extreme heat. Do not apply to hot surfaces. Paint vapors can cause a violent explosion. Supply sufficient ventilation to keep vapors below LEL level. Use explosion proof equipment.

Special Fire-fighting Procedures:

Water may be used to cool closed containers to prevent pressure build up and possible auto ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are required.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flame, hot surfaces, and electrical static or frictional sparks). Avoid breathing vapors; ventilate area, remove with inert absorbent and non-sparking tools.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Do not breathe vapors or spray. Do not eat, smoke or drink when using this product. Wash hands thoroughly after handling.

Wear protective gloves, protective clothing and eye protection and face protection when handling. Wash hands after handling. Do not eat, drink or smoke in work area.

CONDITIONS FOR SAFE STORAGE:

Keep away from hot surfaces and other sources of ignition. Store in cool, secure, well ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| CAS | Chemical | Value type | Control Parameter | Basis |
|------------|--------------------|-------------------|--|--------------|
| 7779-90-0 | Zinc phosphate | TWA | 10 mg/cubic meter (total dust) | ACGIH |
| 14808-60-7 | Crystalline Silica | TWA | 0.025 mg/cubic meter | NIOSH REL |
| 13463-67-7 | Titanium dioxide | PEL | 15 mg/cubic meter (total dust) | OSHA Z-1 |
| 1314-13-2 | Zinc oxide | TWA | 5 mg/cubic meter (dust) | NIOSH REL |
| | | CEILING | 15 mg/cubic meter (dust) | NIOSH REL |
| | | TWA | 15 mg/cubic meter (dust); 5 mg/cubic meter (respirable fraction) | OSHA PEL |
| | | TWA | 2 mg/cubic meter | ACGIH TLV |

| | | | | |
|----------|--------------------|------|--|-----------|
| | | | (respirable fraction) | |
| | | STEL | 10 mg/cubic meter (respirable fraction) | ACGIH TLV |
| 110-43-0 | Methyl Amyl Ketone | TWA | 50 ppm | ACGIH |
| | | TWA | 100 ppm, 465 mg/cubic meter | NIOSH REL |
| | | TWA | 100 ppm, 465 mg/cubic meter | OSHA Z-1 |
| | | TWA | 100 ppm, 465 mg/cubic meter | OSHA P0 |
| | | | | |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---------------------------------|
| Appearance | Yellow liquid |
| Odor | Pungent solvent odor |
| Odor threshold | No data |
| pH | No data |
| Freezing point | No data |
| Initial boiling point | 174 F |
| Flash point | 102 F |
| Evaporation rate | 2.6-7.7 (n-butyl acetate = 1) |
| Flammability | No Data |
| Burning rate | No data |
| Lower explosive limit | 1.0 % (volume) |
| Upper explosive limit | 12 % (volume) |
| Vapor pressure | 71-94.5 mm Hg @ 68 F |
| Relative vapor density | No data |
| Relative density | 1.38 |
| Water solubility | No data |
| Partition coefficient (n-octanol/water) | No data |
| Autoignition temperature | 739 - 760 F |
| Thermal decomposition temperature | No data |
| VOC | 2.77 lbs/gal or 332 grams/liter |

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides.

CONDITIONS TO AVOID: Sources of ignition, excessive temperatures.

INCOMPATIBLE MATERIALS: Oxidizing agents, reducing agents, acids, bases.

11. TOXICOLOGICAL PROPERTIES

Epoxy resin

Zinc phosphate

Oral LD50: 11,400 mg/kg (rat)
Dermal LD50: 2,000 mg/kg (rat)

Crystalline silica

Oral LD50: >22,500 mg/kg (rat)
Carcinogenicity: IARC Group 1 carcinogen; ACGIH
Group A2 (suspected human carcinogen).

Oral LD50: > 5,000 mg/kg (rat)
Inhalation LC50: >5.7 mg/liter
Intraperitoneal LD50: 522 mg/kg

Zinc oxide

Oral LD50: 7,950 mg/kg (rat)
Oral LD50(Lo): 500 mg/kg (human)

Methyl Amyl Ketone

Oral LD50: 1,670 mg/kg (rat)
Inhalation LC50: >16.7 mg/liter (rat), 4 hours.
Dermal LC50: >2,000 mg/kg (rat)

12. ECOLOGICAL INFORMATION

Epoxy resin

Fish: LC50: 131 mg/l (Oncorhynchus mykiss- Rainbow Trout), 96 hours. Semi-static test
Daphnia and other inveterbrates: EC50: 2.1 mg/l, 48 hrs (Daphnia magna), Static Test
Algae: LC50: >11 mg/l, 72 hrs. (Pseudokirchneriella subcapita)

Yellow iron oxide

Fish: LC50: >100,000 mg/l (Danio rerio), 96 hours. Semi-static test
Daphnia and other inveterbrates: EC50: >100 mg/l, 48 hrs (Daphnia magna), Static Test.

Zinc phosphate

Fish: LL50: 0.14-2.6 mg/l as zinc (Oncorhynchus mykiss- Rainbow Trout), 96 hours. Semi-static test
Daphnia and other inveterbrates: EC50: 0.413 mg/l as zinc, 48 hrs (Ceriodaphnia dubia), Static Test
Algae: EC50: 0.136-0.150 mg/l as zinc, 72 hrs. (Selenastrum capricornutum)

Zinc oxide

Fish: LL50: 1.1 mg/l (Oncorhynchus mykiss- Rainbow Trout), 96 hours. Semi-static test
Daphnia and other inveterbrates: EC50: 2.0 mg/l, 48 hrs (Daphnia magna), Static Test
Algae: IC50: 0.63 mg/l, 72 hrs. (Pseudokirchneriella subcapita)
Ecotoxicity Assessment: Toxic to aquatic life
Chronic aqua/toxicity: Toxic to aquatic life with long lasting effects

Methyl Amyl Ketone

Fish: LC50 131 mg/liter (Pimephales promelas) , 96 hours
Daphnia and other invertebrates: EC50: >100 mg/l, 48 hrs (Daphnia magna), Static Test
Algae: EC50: 98.2 mg/l, 72 hrs. (Selenastrum capricornutum)

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Dispose in accordance with local, state and federal regulations. Do not incinerate closed containers.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION or INTERNATIONAL AIR TRANSPORT ASSOCIATION or INTERNATIONAL MARITIME ORGANIZATION:

PROPER SHIPPING NAME: PAINT

HAZARD CLASS: 3

UN OR ID NUMBER: U.N. 1263

PACKING GROUP: III

Components listed as Marine Pollutants: none.

Components otherwise identified as toxic to aquatic environments: zinc oxide.

15. REGULATORY INFORMATION

The following components are subject to the Emergency Planning and Community Right-To-Know Act (EPCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) or Section 112(r) of the Clean Air Act:

Zinc phosphate: : listed for CERCLA reporting as zinc compound without assigned RQ value. Listed for reporting under EPCRA Section 313.

Methyl ethyl ketone: CERCLA RQ = 5,000 lbs.

Zinc oxide: listed for CERCLA reporting as zinc compound without assigned RQ value. Listed for reporting under EPCRA Section 313.

16. OTHER INFORMATION

Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CAL/OSHA: California Division of Occupational Safety and Health

CERCLA: Comprehensive Environmental Response, Compensation and Liability Act

COD: Chemical Oxygen Demand

EC50: Effective Concentration, Half Maximal

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50% (median value)

LD₁₀: Lethal Dose (lowest value)

LL50: Lethal Level 50%

OSHA: Occupational Safety and Health Administration

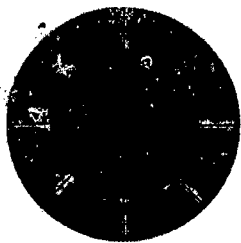
PEL: Permissible Exposure Limit

ThOD: Theoretical Oxygen Demand

TWA: Time Weighted Average

WEEL: Workplace Environmental Exposure Level

Date of SDS Preparation: February, 2017



Simco Coatings Inc.

Manufacturer of Military Spec.,
Corps of Engrs. Spec, Industrial, &
Marine Coatings

Product Information

MILGUARD-23377
EPOXY-POLYAMIDE PRIMER

DESCRIPTION:

Milguard-23377 is a two component, high solids, VOC compliant epoxy polyamide primer with excellent chemical, solvent and corrosion resistance suitable to be used on Aluminum, Steel and Galvanized Substrates.

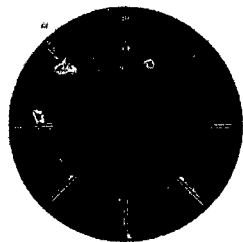
CONFORMANCE:

This product complies with military specification MIL-P-23377J, Type-I, Class-N

TECHNICAL DATA

| | |
|--|---|
| GENERIC TYPE: | Epoxy Resin and Polyamide Curing Agents |
| COLOR: | Yellow |
| FINISH: | Semi-Gloss |
| VOLATILE ORGANIC COMPOUNDS: (VOC BEFORE THINNING) | 2.82 Lbs./Gal. or 338 Grms./Ltr. |
| MIX RATIO: | 3:1 by Volume |
| SOLIDS BY VOLUME: | 60 % (Mixed) |
| THEORETICAL SPREADING RATE: | Approx. 1,200 sq. ft/gal. @ 1.0 Mil DFT |
| RECOMMENDED DRY FILM THICKNESS (DFT) : | 1.0 -1.5 Mils (25 – 38 Microns) |
| POT LIFE @ 77 ° F, 50% RH: | 4 Hrs. |
| SHELF LIFE: | 12 Months |
| FLASH POINT: | 102 ° F (Mixed) |
| REDUCER/CLEAN UP: | Epoxy Thinner MIL-T-81772, Type-II |
| DRY TIME @ 77 ° F: | |
| TACK FREE: | 5 Hrs. |
| DRY HARD: | 8 Hrs. |
| TO RECOAT: | |
| MINIMUM: | 12 Hrs. |
| MAXIMUM: | 3 Days |

Simco Coatings Inc.
211 Gunther Ln., Belle Chasse, Louisiana 70037 U.S.A.
Tel: (504) 393-9455 Fax: (504) 433-1406 Toll Free: 1-866-95SIMCO
e-mail: sales@simcocoatings.com web: www.simcocoatings.com



Simco Coatings Inc.

Manufacturer of Military Spec.,
Corps of Engrs. Spec, Industrial, &
Marine Coatings

MILGUARD-23377
EPOXY-POLYAMIDE PRIMER

SURFACE PREPARATION:

Surface must be clean, dry, and in sound condition. Remove all oil, dust grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

IRON & STEEL SUBSTRATES:

Remove all oil and grease from surface by solvent cleaning per SSPC-SPI. Minimum surface preparation is commercial blast cleaning per SSPC-SP6. For better performance, use near White Metal Blast Cleaning Per SSPC-SP10. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils). Remove all weld spatter and all round sharp edges by grinding to a minimum 1/4" radius. Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

ALUMINUM SUBSTRATES:

Remove all oil, grease dirt, oxide and other foreign material by solvent cleaning per SSPC-SP1.

APPLICATION CONDITIONS:

Temperature: 50 ° F Minimum, 100 F Maximum (Air, Surface and Material)
At least 5 ° F above dew point
Force Drying: 45-60 Minutes @ 140 ° F for Dry Hard
Relative Humidity: 85% maximum

APPLICATION EQUIPMENT:

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compatible with the existing environmental and application conditions.

Reducer/Clean Up.....MIL-P-81772, Type-II

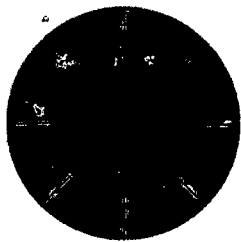
Airless Spray

Unit.....30:1 Pump
Pressure.....2400-2800 psi
Hose.....1/4" ID
Tip......009"-.015"
Filter.....60 Mesh
Reduction.....Not recommended

CONVENTIONAL SPRAY

Gun.....DeVilbiss MBC510
Fluid Tip.....FF
Air Cap.....797
Atomization Pressure.....50-60 psi

Simco Coatings Inc.
211 Gunther Ln., Belle Chasse, Louisiana 70037 U.S.A.
Tel: (504) 393-9455 Fax: (504) 433-1406 Toll Free: 1-866-95SIMCO
e-mail: sales@simcocoatings.com — web: www.simcocoatings.com



Simco Coatings Inc.

Manufacturer of Military Spec.,
Corps of Engrs. Spec, Industrial, &
Marine Coatings

MILGUARD-23377
EPOXY-POLYAMIDE PRIMER

Fluid Pressure.....10-15 psi
Reduction.....Not recommended

APPLICATION PROCEDURES:

Mix contents of both Part A & B thoroughly with power agitation. Make certain no pigment remains on the bottom of the can. Then combine three parts by volume of Part-A with one part by volume of Part-B. Thoroughly agitate the mixture with power agitation. After mixing, pour through a 60-mesh screen. Allow the material to sweat-in as indicated below prior to application. Re-stir before using.

PERFORMANCE TIPS:

Stripe coats all crevices, welds and sharp angles to prevent early failure in these areas.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at right angle.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, over thinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance, and adhesion.

Do not apply the material beyond recommended pot life

Do not mix previously catalyzed material with new.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Epoxy Thinner MIL-P-81772, Type-II

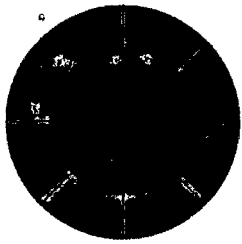
SAFETY PRECAUTIONS:

(A) Use normal precautions such as gloves, facemasks. (B) Adequate ventilation must be maintained. (C) Explosion proof lights and electrical equipment. (D) Non-sparking shoes and tools for workers in the area. (E) This product contains flammable materials. Forbid all flames, smoking and welding in the work area. (F) Avoid breathing of vapor, contact with skin and eyes.

NON-WARRANTY:

The technical data listed herein has been compiled for your convenience and guidance, and is based upon our experience and knowledge. However, since we have no control over the use of this information or of

Simco Coatings Inc.
211 Gunther Ln., Belle Chasse, Louisiana 70037 U.S.A.
Tel: (504) 393-9455 Fax: (504) 433-1406 Toll Free: 1-866-95SIMCO
e-mail: sales@simcocoatings.com — web: www.simcocoatings.com



Simco Coatings Inc.

Manufacturer of Military Spec.,
Corps of Engrs. Spec, Industrial, &
Marine Coatings

MILGUARD-23377
EPOXY-POLYAMIDE PRIMER

this product, no warranty, expressed or implied, is intended or given. Simco Coatings, Inc., assumes no responsibility whatsoever for coverage, performance, or any other damages, including injuries resulting from use of this information or of products recommended herein.

FOR INDUSTRIAL USE ONLY

1/16/16

Simco Coatings Inc.
211 Gunther Ln., Belle Chasse, Louisiana 70037 U.S.A.
Tel: (504) 393-9455 Fax: (504) 433-1406 Toll Free: 1-866-95SIMCO
e-mail: sales@simcocoatings.com web: www.simcocoatings.com

SAFETY DATA SHEET

1. IDENTIFICATION

**MANUFACTURER'S
NAME:**

**Simco Coatings
211 Gunther Lane
Belle Chasse, LA. 70037**

**Simco Coatings Phone:
Product Information:
Fax Number:**

**PRODUCT NUMBER:
PRODUCT NAME:
PRODUCT USE:
Date of SDS Preparation:**

**FOR 24 HOUR EMERGENCY ASSISTANCE
CALL CHEMTREC**

**CHEMTREC DOMESTIC NORTH AMERICA: (800)-424-9300
CHEMTREC INTERNATIONAL: (703)-527-3887**

**(504)-393-9455
(866)-957-4626
(504)-433-1406**

**MIL-P-23377 Comp A
MIL-P-23377J , Type I, Class N Primer Yellow (Comp.-A)
Epoxy Polyamide Primer
February, 2017**

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Flammable liquids
Skin irritation
Eye irritation
Skin Sensitization
Specific target organ toxicity (single exposure)
Specific target organ toxicity (repeated exposure)
Carcinogen
Aquatic Toxicity

Category 3
Category 2
Category 2A
Category 1
Category 3 (central nervous system)
Category 1 (lungs)
Category 1A
Category 1

GHS LABEL ELEMENT:

Pictograms:



Signal Word: **DANGER**

HAZARD STATEMENTS

| | |
|-------------|---|
| H225 | Highly flammable liquid and vapor. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H350 | May cause lung cancer if inhaled as respirable silica (in sanding operations). |
| H372 | Causes damage to the lungs through prolonged or repeated exposure of respirable silica (in sanding operations). |
| H400 | Very toxic to aquatic life. |

PRECAUTIONARY STATEMENTS

PREVENTION

| | |
|-------------|--|
| P201 | Obtain special instructions before use |
| P202 | Do not handle until all safety precautions have been read and understood |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground and bond container and receiving equipment. |
| P241 | Use explosion proof equipment and lighting. |
| P242 | Use non-sparing tools. |
| P243 | Take action to prevent static discharge. |
| P261 | Avoid breathing vapors, mist or dust. |
| P264 | Wash hands thoroughly after handling |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in well ventilated area. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves, protective clothes and eye protection |

RESPONSE

| | |
|-------------------------|--|
| P303 + 361 + 353 | IF ON SKIN (or hair), take off immediately all contaminated clothing and wash before reuse. Rinse skin with plenty of water. |
| P333 + 313 | If skin irritation or rash occurs: Get medical attention. |
| P362 + 364 | Take off contaminated clothing and wash it before reuse. |
| P301 + 310 | IF SWALLOWED: immediately call a POISON CENTER/DOCTOR for assistance. |
| P304 + 340 | IF INHALED, remove person to fresh air and keep comfortable for breathing. |
| P312 | Call a physician if you feel unwell. |
| P305 + 351 + 338 | IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing |
| P337 + 313 | If eye irritation persists, get medical attention |
| P308 + 313 | If exposed or concerned, get medical attention. |
| P370 + 378 | In case of fire, use alcohol resistant foam, carbon dioxide, dry chemical or water fog to extinguish. Do not use water jet. |
| H391 | Collect spillage. |

STORAGE

| | |
|-------------------------|--|
| P403 + 233 + 235 | Store in a well ventilated place and keep cool and tightly closed. |
| P405 | Store locked up. |

DISPOSAL

| | |
|-------------|---|
| P501 | Dispose of contents/container to an approved disposal facility and in accordance with federal, state and local regulations. |
|-------------|---|

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS | % Range |
|-----------------------------|-------------|---------|
| Epoxy resin | proprietary | 30-40 |
| Zinc phosphate | 7779-90-0 | 10-20 |
| Magnesium silicate | 14807-96-6 | 10-20 |
| Magnesium calcium carbonate | 16389-88-1 | 1-5 |
| Crystalline silica | 14808-60-7 | 0.1-0.5 |
| Titanium dioxide | 13463-67-7 | 10-20 |
| Yellow Iron Oxide | 51274-00-1 | 1-5 |
| Zinc oxide | 1314-13-2 | 1-5 |
| Methyl amyl ketone | 110-43-0 | 15-25 |

4. FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

Acute Effects of Exposure: Causes skin irritation and allergic skin reaction and rash. Causes serious eye irritation and redness. May cause respiratory irritation.

Chronic Effects of Exposure: Inhalation of respirable silica, as in sanding operations, may cause lung cancer.

IF ON SKIN (or hair), take off immediately all contaminated clothing and wash before reuse.

Rinse skin with plenty of water.

If skin irritation or rash occurs: Get medical attention.

Take off contaminated clothing and wash it before reuse.

IF SWALLOWED, immediately call a POISON CENTER/DOCTOR for assistance.

IF INHALED, remove person to fresh air and keep comfortable for breathing. Call a physician if not feeling well.

IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: alcohol resistant foam, carbon dioxide, dry chemical or water fog to extinguish.

UNACCEPTABLE EXTINGUISHING MEDIA: Do not use water jet.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Isolate from heat, electrical equipment, spark & open flame, closed containers may explode when exposed to extreme heat. Do not apply to hot surfaces. Paint vapors can cause a violent explosion. Supply sufficient ventilation to keep vapors below LEL level. Use explosion proof equipment.

Special Fire-fighting Procedures:

Water may be used to cool closed containers to prevent pressure build up and possible auto ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are required.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flame, hot surfaces, and electrical static or frictional sparks). Avoid breathing vapors; ventilate area, remove with inert absorbent and non-sparking tools.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Do not breathe vapors or spray. Do not eat, smoke or drink when using this product. Wash hands thoroughly after handling.

Wear protective gloves, protective clothing and eye protection and face protection when handling. Wash hands after handling. Do not eat, drink or smoke in work area.

CONDITIONS FOR SAFE STORAGE:

Keep away from hot surfaces and other sources of ignition. Store in cool, secure, well ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| CAS | Chemical | Value type | Control Parameter | Basis |
|------------|--------------------|------------|--|-----------|
| 7779-90-0 | Zinc phosphate | TWA | 10 mg/cubic meter (total dust) | ACGIH |
| 14808-60-7 | Crystalline Silica | TWA | 0.025 mg/cubic meter | NIOSH REL |
| 13463-67-7 | Titanium dioxide | PEL | 15 mg/cubic meter (total dust) | OSHA Z-1 |
| 1314-13-2 | Zinc oxide | TWA | 5 mg/cubic meter (dust) | NIOSH REL |
| | | CEILING | 15 mg/cubic meter (dust) | NIOSH REL |
| | | TWA | 15 mg/cubic meter (dust); 5 mg/cubic meter (respirable fraction) | OSHA PEL |
| | | TWA | 2 mg/cubic meter | ACGIH TLV |

| | | | | |
|----------|--------------------|------|--|-----------|
| | | | (respirable fraction) | |
| | | STEL | 10 mg/cubic meter (respirable fraction) | ACGIH TLV |
| 110-43-0 | Methyl Amyl Ketone | TWA | 50 ppm | ACGIH |
| | | TWA | 100 ppm, 465 mg/cubic meter | NIOSH REL |
| | | TWA | 100 ppm, 465 mg/cubic meter | OSHA Z-1 |
| | | TWA | 100 ppm, 465 mg/cubic meter | OSHA P0 |
| | | | | |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---------------------------------|
| Appearance | Yellow liquid |
| Odor | Pungent solvent odor |
| Odor threshold | No data |
| pH | No data |
| Freezing point | No data |
| Initial boiling point | 174 F |
| Flash point | 102 F |
| Evaporation rate | 2.6-7.7 (n-butyl acetate = 1) |
| Flammability | No Data |
| Burning rate | No data |
| Lower explosive limit | 1.0 % (volume) |
| Upper explosive limit | 12 % (volume) |
| Vapor pressure | 71-94.5 mm Hg @ 68 F |
| Relative vapor density | No data |
| Relative density | 1.38 |
| Water solubility | No data |
| Partition coefficient (n-octanol/water) | No data |
| Autoignition temperature | 739 - 760 F |
| Thermal decomposition temperature | No data |
| VOC | 2.77 lbs/gal or 332 grams/liter |

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides.

CONDITIONS TO AVOID: Sources of ignition, excessive temperatures.

INCOMPATIBLE MATERIALS: Oxidizing agents, reducing agents, acids, bases.

11. TOXICOLOGICAL PROPERTIES

Epoxy resin

Zinc phosphate

Oral LD50: 11,400 mg/kg (rat)
Dermal LD50: 2,000 mg/kg (rat)

Oral LD50: > 5,000 mg/kg (rat)
Inhalation LC50: >5.7 mg/liter
Intraperitoneal LD50: 522 mg/kg

Crystalline silica

Oral LD50: >22,500 mg/kg (rat)
Carcinogenicity: IARC Group 1 carcinogen; ACGIH
Group A2 (suspected human carcinogen).

Zinc oxide

Oral LD50: 7,950 mg/kg (rat)
Oral LD50(Lo): 500 mg/kg (human)

Methyl Amyl Ketone

Oral LD50: 1,670 mg/kg (rat)
Inhalation LC50: >16.7 mg/liter (rat), 4 hours.
Dermal LC50: >2,000 mg/kg (rat)

12. ECOLOGICAL INFORMATION

Epoxy resin

Fish: LC50: 131 mg/l (Oncorhynchus mykiss- Rainbow Trout), 96 hours. Semi-static test
Daphnia and other inveterbrates: EC50: 2.1 mg/l, 48 hrs (Daphnia magna), Static Test
Algae: LC50: >11 mg/l, 72 hrs. (Pseudokirchneriella subcapita)

Zinc phosphate

Fish: LL50: 0.14-2.6 mg/l as zinc (Oncorhynchus mykiss- Rainbow Trout), 96 hours. Semi-static test
Daphnia and other inveterbrates: EC50: 0.413 mg/l as zinc, 48 hrs (Ceriodaphnia dubia), Static Test
Algae: EC50: 0.136-0.150 mg/l as zinc, 72 hrs. (Selenastrum capricornutum)

Yellow iron oxide

Fish: LC50: >100,000 mg/l (Danio rerio), 96 hours. Semi-static test
Daphnia and other inveterbrates: EC50: >100 mg/l, 48 hrs (Daphnia magna), Static Test.

Zinc oxide

Fish: LL50: 1.1 mg/l (Oncorhynchus mykiss- Rainbow Trout), 96 hours. Semi-static test
Daphnia and other inveterbrates: EC50: 2.0 mg/l, 48 hrs (Daphnia magna), Static Test
Algae: IC50: 0.63 mg/l, 72 hrs. (Pseudokirchneriella subcapita)
Ecotoxicity Assessment: Toxic to aquatic life
Chronic aqua/toxicity: Toxic to aquatic life with long lasting effects

Methyl Amyl Ketone

Fish: LC50 131 mg/liter (Pimephales promelas) , 96 hours
Daphnia and other invertebrates: EC50: >100 mg/l, 48 hrs (Daphnia magna), Static Test
Algae: EC50: 98.2 mg/l, 72 hrs. (Selenastrum capricornutum)

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Dispose in accordance with local, state and federal regulations. Do not incinerate closed containers.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION or INTERNATIONAL AIR TRANSPORT ASSOCIATION or INTERNATIONAL MARITIME ORGANIZATION:

PROPER SHIPPING NAME: PAINT

HAZARD CLASS: 3

UN OR ID NUMBER: U.N. 1263

PACKING GROUP: III

Components listed as Marine Pollutants: none.

Components otherwise identified as toxic to aquatic environments: zinc oxide.

15. REGULATORY INFORMATION

The following components are subject to the Emergency Planning and Community Right-To-Know Act (EPCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) or Section 112(r) of the Clean Air Act:

Zinc phosphate: listed for CERCLA reporting as zinc compound without assigned RQ value. Listed for reporting under EPCRA Section 313.

Methyl ethyl ketone: CERCLA RQ = 5,000 lbs.

Zinc oxide: listed for CERCLA reporting as zinc compound without assigned RQ value. Listed for reporting under EPCRA Section 313.

16. OTHER INFORMATION

Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CAL/OSHA: California Division of Occupational Safety and Health

CERCLA: Comprehensive Environmental Response, Compensation and Liability Act

COD: Chemical Oxygen Demand

EC50: Effective Concentration, Half Maximal

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50% (median value)

LD₁₀: Lethal Dose (lowest value)

LL50: Lethal Level 50%

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

ThOD: Theoretical Oxygen Demand

TWA: Time Weighted Average

WEEL: Workplace Environmental Exposure Level

Date of SDS Preparation: February, 2017

GHS SAFETY DATA SHEET

1. IDENTIFICATION

**MANUFACTURER'S
NAME:**

Simco Coatings
211 Gunther Lane
Belle Chasse, LA. 70037

Simco Coatings Phone:
Product Information:
Fax Number:

PRODUCT NUMBER:
PRODUCT NAME:
PRODUCT USE:
Date of SDS Preparation:

**FOR 24 HOUR EMERGENCY ASSISTANCE
CALL CHEMTREC**

CHEMTREC DOMESTIC NORTH AMERICA: (800)-424-9300
CHEMTREC INTERNATIONAL: (703)-527-3887

(504)-393-9455
(866)-957-4626
(504)-433-1406

MIL-P-23377J, Type I, Class N
Hardener for Epoxy Polyamide Primer (Component B)
Hardener for Epoxy Polyamide Protective Coating
December, 2015

2. HAZARDS IDENTIFICATION

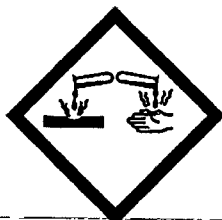
GHS CLASSIFICATION:

Flammable liquids
Skin irritation
Eye irritation
Skin sensitization
Mutagen
Aspiration hazard

Category 3
Category 1A
Category 1
Category 1B
Category 1B
Category 1

GHS LABEL ELEMENT:

Pictograms:



Signal Word: **DANGER**

HAZARD STATEMENTS

Flammable liquid and vapor. Causes severe skin burns and eye damage. May cause allergic skin reaction. May be fatal if swallowed and enters airways. May cause genetic defects. Toxic to aquatic environment.

PRECAUTIONARY STATEMENTS

PREVENTION

Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Keep container cool and tightly closed. Use explosion proof equipment and non-sparking tools and take action to prevent static discharges.

Do not breathe dust/fume/gas/vapor/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear respiratory protection, protective gloves, protective clothing, eye protection, face protection. Contaminated work clothing should not be allowed out of the work area.

Use only outdoors or in well ventilated area. Avoid release to the environment.

RESPONSE

IF INHALED, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, consult a physician. If breathing has stopped, cardiopulmonary resuscitation may be administered.

IF SWALLOWED, call POISON CENTER/DOCTOR, if you feel unwell. Rinse mouth. Prevent aspiration of vomit. DO NOT INDUCE VOMITING.

IF ON SKIN, take off immediately all contaminated clothing and wash it before reuse. Rinse skin or shower with plenty of water. If skin irritation or rash occurs, get medical advice/attention. Contaminated work clothing should not be allowed out of the workplace.

IF IN EYES, rinse cautiously with water for several minutes and remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

IF EXPOSED OR CONCERNED, immediately , call a POISON CENTER/DOCTOR.

In case of fire, use dry chemical, carbon dioxide or alcohol resistant foam to extinguish. Collect any spillage.

STORAGE

Store in a well ventilated, secure place. Keep cool.

DISPOSAL

Dispose of contents/container to an approved disposal facility and in accordance with federal, state and local regulations.

| |
|--|
| 3. COMPOSITION/INFORMATION ON INGREDIENTS |
|--|

| Component | CAS | % Range |
|------------------------------------|-------------|---------|
| Propriety Epoxy-Amine Curing Agent | Proprietary | 70-80 |
| Proprietary Amine | Proprietary | 1-5 |
| Proprietary Reacted Amine | Proprietary | 1-10 |
| Proprietary Amine Products | Proprietary | 1-3 |
| n-Butanol | 71-36-3 | 15-30 |
| Light aromatic naphtha | 64742-95-6 | 10-20 |
| Trimethylbenzene | 25551-13-7 | 5-10 |
| 1,2,4-trimethylbenzene | 95-63-6 | 5-10 |
| 1,3,5-trimethylbenzene | 108-67-8 | 1-5 |
| 1,2,5-trimethylbenzene | 526-73-8 | 1-5 |
| Cumene | 98-82-8 | 0-3 |

4. FIRST AID MEASURES

EFFECTS OF OVEREXPOSURE:

Causes severe skin burns and eye damage. May cause allergic skin reaction. May be fatal if swallowed and enters airways. May cause genetic defects.

PRIMARY ROUTE (S) OF ENTRY: DERMAL INHALATION EYES

EMERGENCY AND FIRST AID PROCEDURES:

IF INHALED, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, consult a physician. If breathing has stopped, cardiopulmonary resuscitation may be administered.

IF SWALLOWED, call POISON CENTER/DOCTOR, if you feel unwell. Rinse mouth. Prevent aspiration of vomit. DO NOT INDUCE VOMITING.

IF ON SKIN, take off immediately all contaminated clothing and wash it before reuse. Rinse skin or shower with plenty of water. If skin irritation or rash occurs, get medical advice/attention. Contaminated work clothing should not be allowed out of the workplace.

IF IN EYES, rinse cautiously with water for several minutes and remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

IF EXPOSED OR CONCERNED, immediately, call a POISON CENTER/DOCTOR.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Dry chemical, carbon dioxide, alcohol resistant foam

UNSUITABLE EXTINGUISHING MEDIA: High volume water jet.

HAZARDOUS DECOMPOSITION PRODUCTS: Nitric acid, ammonia, nitrogen oxides, carbon oxides, aldehydes, nitrosamines.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Isolate from heat, electrical equipment, spark & open flame, closed containers may explode when exposed to extreme heat. Do not apply to hot surfaces. Paint vapors can cause a violent explosion. Supply sufficient ventilation to keep vapors below LEL level. Use explosion proof equipment.

Special Fire-fighting Procedures:

Water may be used to cool closed containers to prevent pressure build up and possible auto ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are required.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flame, hot surfaces, and electrical static or frictional sparks). Avoid breathing vapors; ventilate area, remove with inert absorbent and non-sparking tools. Wear protective clothing.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Wear respiratory protection, protective gloves, protective clothing and eye and face protection when handling. Wash hands after handling. Do not eat, drink or smoke in work area.

CONDITIONS FOR SAFE STORAGE:

Keep away from hot surfaces and other sources of ignition. Store in cool, secure, well ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

n-Butanol

20 ppm, TWA ACGIH
50 ppm, ceiling, NIOSH REL
150 mg/cu. meter, ceiling, NIOSH REL
100 ppm, TWA, OSHA Z-1
300 mg/cu. Meter, TWA, OSHA Z-1
50 ppm, ceiling, OSHA Z-1A
150 mg/cu. Meter, ceiling, OSHA P0

Light aromatic naphtha

500 ppm TWA OSHA Z-1
2,000 mg/cubic meter TWA OSHA Z-1
400 ppm TWA OSHA P0
1,600 mg/cubic meter TWA OSHA P0
400 ppm TWA OSHA P0
1,600 mg/cubic meter TWA OSHA P0
200 ppm TWA (as total hydrocarbon vapor) ACGIH

Trimethylbenzene (25551-13-7)

25 ppm meter TWA ACGIH
25 ppm TWA OSHA P0
125 mg/cu. Meter TWA OSHA P0

1,2,4-Trimethylbenzene

25 ppm TWA NIOSH REL
125 mg/cu. Meter TWA NIOSH REL

STABILITY: Stable under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Nitric acid, ammonia, nitrogen oxides, carbon oxides, aldehydes, nitrosamines.

CONDITIONS TO AVOID: Sources of ignition, excessive temperatures.

11. TOXICOLOGICAL PROPERTIES

N-Butanol

Oral LD50: 790 mg/kg (rat)
Inhalation LC50: >8,000 ppm (rat, male and female)
Dermal LD50: 3,430 mg/kg (rabbit, male)
Irritating to skin: Draize test.
Eye Damage: (rabbit) OECD Test Guideline 405.
Not mutagen: (Chinese hamster) OECD Test Guideline 476; (mouse, male & female) OECD Test Guideline 474

Light Aromatic Naphtha

Oral LD50: >5,000 mg/kg (rat)
Inhalation LC50: No Data
Dermal LD50: >2,000 mg/kg (Rabbit, male and female)
Irritating to eyes: OECD Test Guideline 405 (rabbit)
Irritating to skin: 4 hours, OECD Test Guideline 404
Not Skin sensitizer: Buehler Test, OECD Test Guideline 406 (guinea pig)

12. ECOLOGICAL INFORMATION

Light Aromatic Naphtha

LC50: 10 mg/l (oncorhynchus mykiss) semi-static test, 96 hours
EL50: 4.5 mg/l (Daphnia magna, static test, 48 hours
EL50: 3.1 mg/l (Pseudokirchneriella subcapita), static test, growth rate, 72 hours.
Biodegradability: 77.05%, readily biodegradable, 28 days, OECD test Guideline 301F

N-Butanol

LC50: 1,376 mg/l (Pimephales promelas), 96 hours
EC50: 1,328 mg/l (Daphnia magna), 48 hours.
EC50: 225 mg/l (Pseudokirchneriella subcapita), 96 hours.
NOEC: 4.1 mg/liter (Daphnia magna), 21 days.
EC50: 4,390 mg/liter (Pseudomonas putida), 17 hours, static test.
Biodegradability: 98%, 19 days, OECD Test Guideline 301E, readily biodegradable.
COD: 0.00245 mg/gram.
ThOD: 0.00259 mg/gram.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Dispose in accordance with local, state and federal regulations. Incinerate in approved facility. Do not incinerate closed containers.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION:

PROPER SHIPPING NAME: PAINT

HAZARD CLASS: 3

UN OR ID NUMBER: U.N. 1263

PACKING GROUP: III

15. REGULATORY INFORMATION

The following component(s) are subject to Emergency Planning and Community Right-To-Know Act (EPCRA) Section 302 Extremely Hazardous Substances, EPCRA Section 313 Toxic Chemicals, Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and/or Section 112(r) of the Clean Air Act:

1,2,4-Trimethylbenzene: EPCRA Section 313.

Cumene: EPCRA Section 313; CERCLA RQ=5,000 lbs.

N-Butanol: EPCRA Section 313; CERCLA RQ = 5,000 lbs.

16. OTHER INFORMATION

Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists

CAL/OSHA: California Division of Occupational Safety and Health

CERCLA: Comprehensive Environmental Response, Compensation and Liability Act

COD: Chemical Oxygen Demand

EC50: Effective Concentration, Half Maximal

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

NOEC: No Observed Effect Concentration

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

ThOD: Theoretical Oxygen Demand

TWA: Time Weighted Average

WEEL: Workplace Environmental Exposure Level (American Industrial Hygiene Association)

Date of SDS Preparation: December, 2015